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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Dharshini C. Fongalland et al.

: Art Unit:

Application No.:

To Be Assigned

: Examiner:

Filed:

Herewith

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FOR:

SUBSTRATE BINDER

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, DC 20231

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Prior to examination, please amend the above-identified application

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 5, line 14, with the

following:

following:

as follows.

The substrate of the invention is suitable for use in the preparation of a composite membrane for use in a fuel cell. When for use in a fuel cell, the total thickness of the membrane is less than 200 µm and preferably less than 100 µm.

Please replace the paragraph beginning at page 6, line 18, with the

2. Perfluorinated or partially-fluorinated polymers further having aromatic rings, such as those described in PCT patent specifications numbers WO 95/08581 and WO 97/25369, which have been functionalised with SO₃H, PO₂H₂, PO₃H₂, CH₂PO₃H₂, COOH, OSO₃H, OPO₂H₂, and/or OPO₃H₂. Also included are radiation- or chemically-grafted perfluorinated polymers, in which the perfluorinated carbon chain is activated by radiation or chemical initiation in the presence of a monomer, such as styrene, which can be functionalised to contain an ion-exchange group. Suitable perfluorinated polymers

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